PCT

WORLD INTELLECTUAL PROPERTY ORC



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 5:

A61B 17/36

(11) International Publication Number:

WO 93/0782;

| A1

(43) International Publication Date:

29 April 1993 (29.04.93

(21) International Application Number:

PCT/US92/08706

(22) International Filing Date:

13 October 1992 (13.10.92)

(30) Priority data:

779,101

18 October 1991 (18.10.91) US

(71) Applicant: BIRTCHER MEDICAL SYSTEMS, INC. [US/US]; 50 Technology Drive, Irvine, CA 92718 (US).

(72) Inventors: WALBRINK, Harold, J.; 24771 Cutter, Laguna Niguel, CA 92677 (US). BUREK, Paul, P.; 16503 East Purdue Place, Aurora, CO 80013 (US). BOWERS, William, J.; 173 Murica Aisle, Irvine, CA 92714 (US). EMMONS, Donald, L.; 4800 Daleview, Space 98, El Monte, CA 91731 (US). (74) Agents: CRANDELL, Ralph, F. et al.; Holland & Har Post Office Box 8749, 555 Seventeenth Street, Suit 2900, Denver, CO 80201-8749 (US).

(81) Designated States: AU, BR, CA, JP, KR, NO, RU, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR IE, IT, LU, MC, NL, SE).

Published

With international search report.
With amended claims and statement.

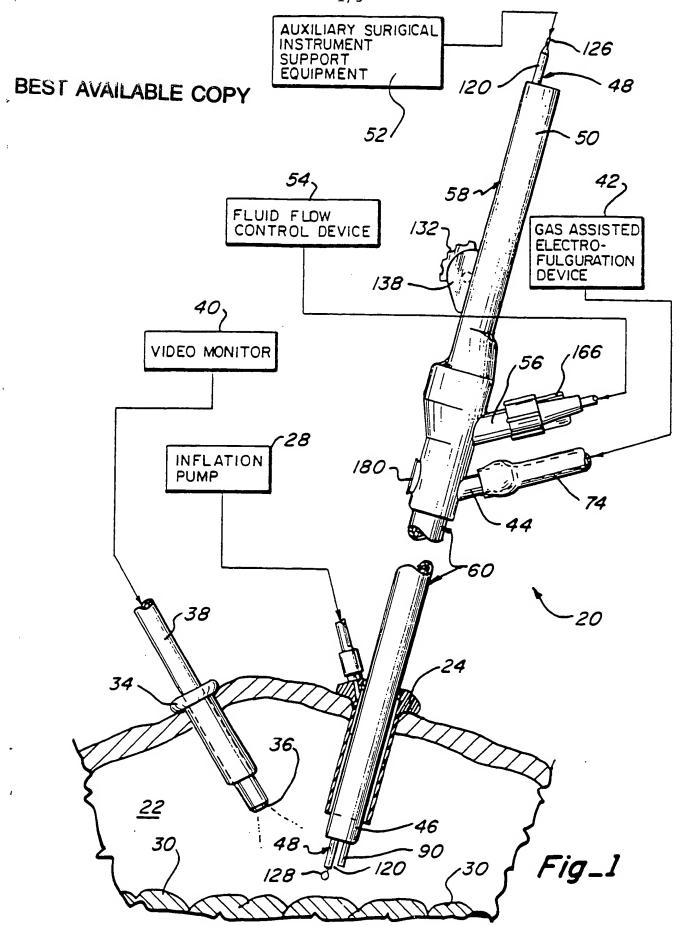
(54) Title: MULTIFUNCTIONAL PROBE FOR MINIMALLY INVASIVE SURGERY

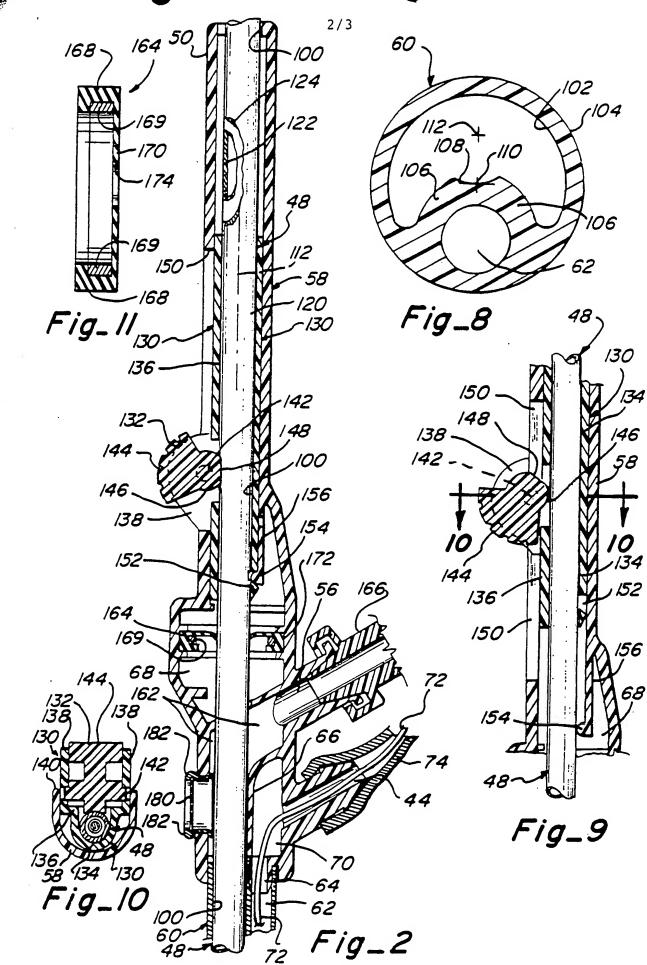
(57) Abstract

A probe (20) for use in minimally invasive surgery incorporates a handle (50), a body tube (60) and an electrosurgical instrument (120) extending through the probe to the distal end (46) thereof. The probe includes a port (56) to a passageway through the body tube (60) for achieving evacuation, irrigation or aspiration at the surgical site controlled by a fluid flow control device (54). Additional devices, such as a video monitor (40) and inflation pump (28), may be utilized in association with the probe (20).

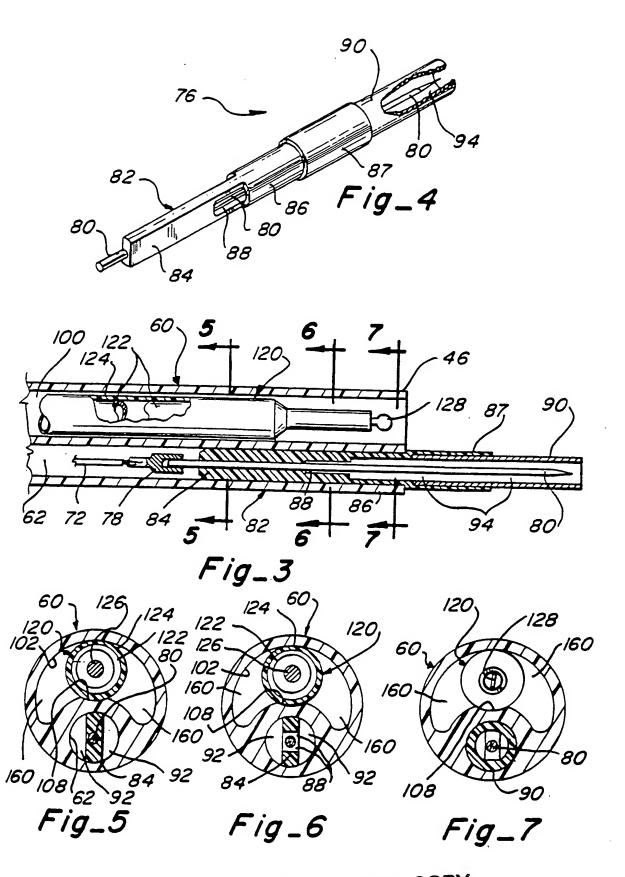
BEST AVAILABLE COPY

WU 73/10/041





BEST AVAILABLE COPY



BEST AVAILABLE COPY